

IN THE CLAIMS:

1 1. (Currently Amended) A process to restore and refurbish an airplane engine part
2 or accessory having a tubular portion, which process comprises:

3 visually inspecting said part or accessory for cracks, erosion, or broken areas;

4 making an opening in a wall of said tubular portion to access an interior of said
5 tubular portion to repair any internal cracks, erosion or broken areas;

6 machining or drilling off selected areas of said part or accessory;

7 building up said selected areas by welding of said part or accessory in excess of
8 finished dimensions; ~~and~~

9 machining said selected areas of said part or accessory to their finished
10 dimensions; and

11 filling said opening in said wall of said tubular portion by welding.

1 2. (Original) A process to restore and refurbish an airplane engine part or accessory
2 as set forth in Claim 1 wherein said engine part is a turbo charger exhaust housing.

1 3. (Withdrawn) A process to restore and refurbish an engine part or accessory as set
2 forth in Claim 1 wherein said engine part is a waste gate.

1 4. (Withdrawn) A process to restore and refurbish an engine part or accessory as set
2 forth in Claim 1 wherein said engine part is a transition housing.

1 5. (Withdrawn) A process to restore and refurbish an engine part or accessory as set
2 forth in Claim 1 wherein said engine part is a bearing housing.

1 6. (Currently Amended) A process to restore and refurbish an airplane engine part
2 or accessory as set forth in Claim 1 wherein said step of building up said selected areas by
3 welding is accomplished by application of a plurality of weld beads and said process includes
4 peening said part or accessory and said selected areas with a needle scaler after application of
5 each said weld bead in order to relieve stress.

1 7. (Canceled)

1 8. (Canceled)

1 9. (Currently Amended) A process to restore and refurbish an airplane engine part
2 as set forth in Claim 1 including the additional steps of grinding off any broken or cracked
3 flanges on said part and building up each said flange in excess of finished dimensions.

1 10. (Currently Amended) A process to restore and refurbish an airplane engine part
2 as set forth in Claim 1 including the additional, initial steps of:
3 cleaning said part with a liquid solution to remove oil and grease residue; and
4 removing carbon and other debris by blasting said part with bead media.

1 11. (Currently Amended) A process to restore and refurbish an airplane engine part
2 as set forth in Claim 1 including the additional step of applying a liquid die penetrant to said part
3 to identify cracks therein prior to welding.

1 12. (Currently Amended) A process to restore and refurbish an airplane engine part
2 as set forth in Claim 1 including the additional step of preheating said part prior to building up
3 by welding.

1 13. (Currently Amended) A process to restore and refurbish an airplane turbo charger
2 exhaust housing, which process comprises:

3 visually inspecting said turbo charger waste housing for cracks, erosion or broken
4 areas;

5 machining or drilling off all cracks, eroded or broken areas;

6 accessing any internal cracks or erosion by making an opening in a wall of a
7 tubular portion to access an interior;

8 building up selected areas of said housing by welding an excess of finished
9 dimension;~~and~~

10 machining said selected areas of said turbo charger waste housing to their finished
11 dimensions;~~and~~

12 filling said opening in said wall of said tubular portion by welding.

1 14. (Original) A process to restore and refurbish an airline turbo charger exhaust
2 housing as set forth in Claim 13 wherein said selected areas include an exhaust intake mounting
3 flange, studs in exhaust flange on a wheel mounting side, and an exhaust side surface that the
4 exhaust port mates with an exhaust and a tongue area.

1 15. (Original) A process to restore and refurbish an airline turbo charger exhaust
2 housing as set forth in Claim 13 including the additional, initial steps of:
3 cleaning said part with a liquid solution to remove oil and grease residue; and
4 removing carbon and other debris by blasting said part with bead media.